

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a network that includes one or more network devices that have Web browsers implemented thereon, the network devices being network connectable to a network server, the network also including a data server that is in communication with the network server, wherein the network server sends displayable content to the network devices, and wherein the one or more network devices may request data that is stored in the data server even though the data server itself is not configured to present the data as displayable content, a method for rendering data from the data server to create displayable content, comprising:

an act of the network server receiving a request for displayable content from a Web browser at a network device;

an act of identifying a template for the displayable content based on bandwidth available to send the displayable content to the network device, the template including one or more displayable portions that are natively compatible for viewing with the Web browser, one or more generic representations of template constants that are generic across a plurality of languages, one or more tokens representing ~~non-Web~~ non-displayable data that is stored on the data server and is not natively compatible for viewing with the Web browser, [[and]] one or more functions for converting the ~~non-Web~~ non-displayable data into a format that is natively compatible for viewing with the Web browser, and one or more functions for providing the template constant in an appropriate language for the user of the Web browser;

an act of retrieving the ~~non-Web~~ non-displayable data from the data server, the data server storing the ~~non-Web~~ non-displayable data in any of a plurality of ~~non-Web~~ non-displayable formats;

an act of the network server using the identified template to construct the displayable content by performing the following acts:

an act of including displayable portions in the displayable content as specified in the identified template;

an act of converting the ~~non-Web~~ non-displayable data retrieved from the data server that stores the ~~non-Web~~ non-displayable data in any of the plurality of non-Web formats, by using the one or more functions included within the identified template, into a format that is natively compatible for viewing with the Web browser;

an act of including the template constant in the appropriate language; and

an act of including the converted data in the displayable content as specified in the identified template; and

an act of sending the displayable content to the network device.

2-3. (Canceled).

4. (Original) The method as recited in Claim 1, wherein the displayable content comprises a HyperText Markup Language (HTML) document.

5. (Original) The method as recited in Claim 1, wherein the displayable portions comprise HTML tags.

6. (Original) The method as recited in claim 1, wherein the request for displayable content comprises information allowing the network server to identify the web browser type that will be used on the network device to display the displayable content.

7. (Original) The method as recited in Claim 6, wherein the request for displayable content comprises information expressly identifying the Web browser type that will be used on the network device to display the displayable content.

8. (Canceled).

9. (Currently Amended) The method as recited in claim 1, wherein the request for displayable content comprises language information identifying the appropriate language to be used in the displayable content, the method further comprising the following:

an act of identifying the appropriate language based on the language information.

10. (Currently Amended) The method as recited in Claim 9, wherein the language information comprises an express language indication, the method further comprising the following:

an act of identifying the appropriate language based on the express language indication.

11. (Original) The method as recited in Claim 1, wherein the network server and the data server are physically integrated.

12. (Original) The method as recited in Claim 1, wherein the network server and the data server are physically separate.

13. (Original) The method as recited in Claim 1, wherein the act of the network server receiving a request for displayable content comprises the following:

an act of the network server receiving a request for displayable content via network messaging.

14. (Original) The method as recited in Claim 1, wherein the act of the network server receiving a request for displayable content comprises the following:

an act of the network server receiving a request for displayable content via receiving a call to an Application Program Interface (API).

15. (Currently Amended) In a network that includes one or more network devices that have Web browsers implemented thereon, the network devices being network connectable to a network server, the network also including a data server that is in communication with the network server, wherein the network server sends displayable content to the network devices, and wherein the one or more network devices may request data that is stored in the data server even though the data server itself is not configured to present the data as displayable content, a method for rendering data from the data server to create displayable content, comprising:

an act of the network server receiving a request for displayable content from a network device;

an act of identifying a template for the displayable content based on bandwidth available to send the displayable content to the network device, the template including one or more displayable portions that are natively compatible for viewing with the Web browser, one or more generic representations of template constants that are generic across a plurality of languages, one or more tokens representing ~~non-Web~~ non-displayable data that is stored on the data server and is not natively compatible for viewing with the Web browser, [[and]] one or more functions for converting the ~~non-Web~~ non-displayable data into a format that is natively compatible fore viewing with the Web browser, and one or more functions for providing the template constant in an appropriate language for the user of the Web browser;

an act of retrieving the ~~non-Web~~ non-displayable data from the data server, the data server storing the ~~non-Web~~ non-displayable data in any of a plurality of ~~non-Web~~ non-displayable formats;

a step for constructing the displayable content so as to represent both the displayable portions and the non-Web data stored in any of the plurality of non-Web formats at the data server by using the one or more functions included within the identified template to convert the non-Web data into a format that is natively compatible for viewing with the Web browser; and

an act of sending the displayable content to the network device.

16. (Canceled).

17. (Original) The method as recited in Claim 15, wherein the request for displayable content comprises language information that identifies the language to be used in the displayable content.

18-19. (Canceled).

20. (Original) The method as recited in Claim 15, wherein the displayable content comprises a HyperText Markup Language (HTML) document.

21. (Original) The method as recited in Claim 15, wherein the displayable portions comprise HTML tags.

22. (Original) The method as recited in claim 15, wherein the request for displayable content comprises information allowing the network server to identify the web browser type that will be used on the network device to display the displayable content.

23. (Original) The method as recited in Claim 22, wherein the request for displayable content comprises information expressly identifying the Web browser type that will be used on the network device to display the displayable content.

24. (Canceled).

25. (Currently Amended) The method as recited in claim 15, wherein the request for displayable content comprises language information identifying the appropriate language to be used in the displayable content, the method further comprising the following:

an act of identifying the appropriate language based on the language information.

26. (Currently Amended) The method as recited in Claim 25, wherein the language information comprises an express language indication, the method further comprising the following:

an act of identifying the appropriate language based on the express language indication.

27. (Original) The method as recited in Claim 15, wherein the network server and the data server are physically integrated.

28. (Original) The method as recited in Claim 15, wherein the network server and the data server are physically separate.

29. (Original) The method as recited in Claim 15, wherein the act of the network server receiving a request for displayable content comprises the following:

an act of the network server receiving a request for displayable content via network messaging.

30. (Original) The method as recited in Claim 15, wherein the act of the network server receiving a request for displayable content comprises the following:

an act of the network server receiving a request for displayable content via receiving a call to an Application Program Interface (API).

31. (Currently Amended) A computer program product for implementing, in a network that includes one or more network devices that have Web browsers implemented thereon, the network devices being network connectable to a network server, the network also including a data server that is in communication with the network server, wherein the network server sends displayable content to the network devices, and wherein the one or more network devices may request data that is stored in the data server even though the data server itself is not configured to present the data as displayable content, a method for rendering data from the data server to create displayable content, the computer program product comprising:

a computer-readable medium carrying computer-readable instructions, that when executed at the network server, cause the network server to perform the following:

an act of receiving a request for content from a network device from a Web browser at a network device;

an act of identifying a template for the requested content based on bandwidth available to send the displayable content to the network device, the template including displayable content that is natively compatible for viewing with the Web browser, one or more generic representations of template constants that are generic across a plurality of languages, one or more tokens representing ~~non-Web~~ non-displayable data that is stored on the data server and is not natively compatible for viewing with the Web browser, [[and]] one or more functions for converting the non-displayable data into a format that is natively compatible for viewing with the Web browser, and one or more functions for providing the template constant in an appropriate language for the user of the Web browser;

an act of accessing the ~~non-Web~~ non-displayable data from the data server, the data server storing the ~~non-Web~~ non-displayable data in any of a plurality of ~~non-Web~~ non-displayable formats;

an act of following the identified template for the requested content by performing the following acts:

an act of including displayable content in the requested content as specified in the identified template;

an act of converting the ~~non-Web~~ non-displayable data accessed from the data server that stores the ~~non-Web~~ non-

displayable data in any of the plurality of ~~non-Web~~ non-
displayable formats with the one or more functions specified by the
identified template into a format that is natively compatible for
viewing with the Web browser;

an act of including the template constant in the appropriate
language; and

an act of including the converted non-displayable data
[[content]] in the requested content as specified in the identified
template; and

an act of sending the requested content to the network device.

32. (Original) The computer program product as recited in Claim 31, wherein the
computer-readable instructions are non-displayable data.

33. (Original) The computer program product as recited in Claim 31, wherein the
computer-readable instructions are not accessible to the network device.

34. (Currently Amended) The computer program product as recited in Claim 31,
wherein the request for content includes an indication of the appropriate language to be used
when the requested content is sent to the network device.

35. (Currently Amended) The computer program product as recited in Claim 31,
wherein template identification is performed independently of the appropriate language to be
used when requested content is sent to the network device and wherein an identified template
may send data to the network device in more than [[then]] one language.

36. (Original) The computer program product as recited in Claim 31, wherein the
network server and the network device are the same device.

37. (Original) The computer program product as recited in Claim 31, wherein the network server and the data server are the same device.

38. (Original) The computer program product as recited in Claim 31, wherein the computer-readable medium is a physical storage device.

39. (Currently Amended) A computer-readable medium for use in a network that includes one or more network devices that have Web browsers implemented thereon, the network devices being network connectable to a network server, the network also including a data server that is in communication with the network server, wherein the network server sends displayable content to the network devices, and wherein the one or more network devices may request data that is stored in the data server even though the data server itself is not configured to present the data as displayable content, the computer-readable medium storing data for access by a program module being executed on the network server, the computer-readable medium comprising:

- a data structure stored on the computer-readable medium, the data structure including compiled template data to be used by the program module, data structure comprising:

- a data dictionary data object that identifies ~~non-Web~~ non-displayable data to be accessed from the data server that stores the ~~non-Web~~ non-displayable data in any of a plurality of ~~non-Web~~ non-displayable formats, wherein the ~~non-Web~~ non-displayable data is not natively compatible for viewing with a particular Web browser;

- a template constant data object that identifies one or more constants associated with the template that are generic across a plurality of languages;

- a functions data object that identifies one or more functions associated with the template for converting the ~~non-Web~~ non-displayable data that is stored in any of the plurality of ~~non-Web~~ non-displayable formats at the data server and

is not natively compatible for viewing with a particular Web browser into a format that is natively compatible for viewing with the particular Web browser;

a token information table data object that identifies locations in the template associated with the data dictionary data object, the template constant data object, and the functions data object; and

an HTML data object that identifies content associated with the template that is natively compatible for viewing with the particular Web browser.

40 and 41. (Cancelled).

42. (Previously Amended) A computer readable medium as recited in claim 39, wherein the functions data object identifies one or more functions that are stored as non-displayable data.

43. (Previously Amended) A computer readable medium as recited in claim 39, wherein the functions data object identifies one or more functions that are inaccessible from the one or more network devices.

44. (New) A method in accordance with Claim 1, wherein the plurality of languages includes English, Mandarin, and French.